

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001318**Date Inspected:** 11-Oct-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, Sub-Assemblies, Lift 2 West, Lift 2 East**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Download and label photographs.

Sub-Assemblies

Base metal surfaces of splice plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

Bikeway Bracket

Bracket code # BK003-001 base metal surfaces were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

Sub-Assemblies

Base metal faying surfaces of Floor Beam Diaphragms code # FB3008-001 &amp; FB3064 were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

Lift 2 West

ZPMC applied "mist" coat of Interfine 979 to affixed Traveler Brackets. Also internal surfaces of floor "T" stiffeners on Bottom and Side plates were abrasive blasted to remove Rust Stained areas and repairs of damaged undercoated surfaces from trial assembly operations. Panel Points #16-17 were repaired at this time.

Lift 2 East

Repairs were performed on internal undercoated surfaces to remove Rust Stained areas and repair damaged undercoat from Trial Assembly operations to the Bottom Plate areas of the "T" stiffeners from Panel Point #14-14.

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## SOURCE INSPECTION REPORT

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5. Side plate areas were not repaired at this time. Concurrent with this inspection the external affixed Traveler Brackets were also “mist” coated with Interfine 979.

### Lift 3 East

ZPMC requested a “Final” inspection of Cross Beam termination and FL-3 Beams aboard Ship #17 currently moored in the river. ABF QA Zhou Qusong informed Caltrans QA Lumley that ABF was to inspect this area prior to Caltrans to determine compliance as multiple inspections had occurred and resulted in the discovery of non-compliant work and incomplete work and repairs. Caltrans to follow up afterwards and verify compliance.

### Lift 4 East

ZPMC requested a “Final” inspection of Cross Beam termination and FL-3 Beams aboard Ship #17 currently moored in the river. ABF QA Zhou Qusong informed Caltrans QA Lumley that ABF was to inspect this area prior to Caltrans to determine compliance as multiple inspections had occurred and resulted in the discovery of non-compliant work and incomplete work and repairs. Caltrans to follow up and verify compliance.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

Caltrans QA Lumley inquired with ABF Zhou Qusong as to Final inspection of Lifts 3 and 4 East aboard transport ship #17 moored in the river.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-7549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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